

Recovery Plan Action Status

Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)

Plan Status: Final

Plan Date: 18-May-99

Lead Agency: USFWS

Lead Office: South Florida Ecological Services Field Office

(562-3909)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h1.1	Protect pine rockland habitat for deltooid spurge (Chamaesyce deltoidea ssp. deltoidea).	Partially Complete	FY 1995 - FY 1999		South Florida counties	Work type not yet selected	Labor type not yet selected	Cost will vary depending on specific needs. Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-h1.2	Protect or acquire privately owned sites.	Partially Complete	FY 1995 - FY 1999		Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, South Florida counties	Work type not yet selected	Labor type not yet selected	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h1.3	Develop and implement best management practices for pine rocklands.	Not Started			South Florida counties	Work type not yet selected	Labor type not yet selected	See Miami-Dade County Natural Areas Management Working Group (2004). Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h1.4	Continue to expand prescribed burns.	Not Started			Florida Division of Forestry, South Florida counties	Work type not yet selected	Labor type not yet selected	After task is complete and a normal fire rotation is achieved, growing season burns will be employed to maintain appropriate burn regime. Action lead(s): FWS, DOF
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h1.5.1	Eliminate human-caused degradation.	Not Started			South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h1.5.2	Control invasive plant species, particularly exotics.	Not Started			South Florida counties	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres infested with exotics. Action lead(s): FWS

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Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h2.1	Eliminate physical degradation of habitat and restore to optimal conditions.	Not Started			South Florida counties	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 0.5/acre); Total cost dependent upon number of acres restored. Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-h2.2	Continue to refine management practices for pine rocklands.	Ongoing Current	FY 2006		Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h2.3	Continue to conduct prescribed burns.	Ongoing Current	FY 1995 - FY 1999		Department of Environmental Resources Management, Florida Division of Forestry, South Florida counties	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres burned. Action lead(s): FWS, DOF
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h3.1	Continue to investigate and refine the habitat needs of each species.	Not Started			Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h3.2	Investigate fire history and incorporate into management strategies.	Not Started			Department of Environmental Resources Management, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-h3.3	Monitor sites with C. deltoidea ssp. deltoidea to determine success.	Not Started			Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-h3.4.1	Assess the availability of GIS data.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s1.1	Inventory known populations.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-s1.2	Resurvey historic locations.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS

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Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-s1.3	Map distribution of known populations and suitable habitat.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, private
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s2.1.1	Continue work with ex situ propagation and seed banks.	Not Started			Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	3	chde-s2.1.2	Identify potential reintroduction sites and reintroduce C. deltoidea, where appropriate.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	3	chde-s2.1.3	Monitor the experimental outplantings.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	3	chde-s2.2.1	Initiate section 7 consultation when applicable.	Not Started			U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Natural Resources Conservation Service , United States Coast Guard , U.S. Air Force	Work type not yet selected	Labor type not yet selected	Cost included in standard operating procedures of Federal agency's budget. Action lead(s): All Federal agencies
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s2.2.2	Encourage implementation of management plans.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Cost dependent upon the management plan implemented. Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	3	chde-s2.2.3	Continue to enforce take and trade prohibitions.	Not Started			Florida Department of Agriculture and Consumer Services/Division of Plant Industry	Work type not yet selected	Labor type not yet selected	Cost included in standard operating budgets of participating agencies. Action lead(s): FWS, FDACS/DPI

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Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-s3.1	Investigate the reproductive biology of C. deltoidea.	Not Started			Department of Environmental Resources Management, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-s3.2	Identify demographics and gene flow in C. deltoidea.	Not Started			Department of Environmental Resources Management, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s3.3	Study the response of C. deltoidea to habitat management treatments.	Not Started			Department of Environmental Resources Management, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s3.4	Characterize the habitat and identify suitable sites for experimental outplantings.	Not Started			Department of Environmental Resources Management, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-s4.1	Collect existing and historical data and place in a central location.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s4.2	Convene a meeting of all researchers.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, NGO
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	2	chde-s4.3	Monitor status and success of all populations and change management practices if so indicated.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS
Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	3	chde-s4.4	Monitor reintroduction success and modify procedures as necessary.	Not Started			Department of Environmental Resources Management, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO

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Deltoid spurge (Chamaesyce deltoidea ssp. deltoidea)	1	chde-s5.0	Continue implementation of the fire education program and modify as necessary any fire management education program that has been developed.	Not Started			Department of Environmental Resources Management, South Florida counties	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS